BRUHAT BANGALORE MAHANAGARA PALIKE

FIRST AND FINAL BILL

MEASUREMENT SHEET

Name of work: Improvements to Footpaths in Ward No. 15 (Kuvempunagara).

Estimated Cost : Rs. 30.00 Lakhs

Head of Account : P-3726 Zonal Public Works - POW Works

Job Code: 015-23-000009

Name of Agency: Sri. Venkateshappa.S No. 88, Varadarajaswamy Layout, 1st Main Road, Singapura, near Aveksha Hospital, Vidyaranyapura, Bangalore - 560097.

Work order No: BBMP/EE/BTP/WO/185/2022-23 D: 20-03-2023.

	Measurements Recarded on :	02-11-2023							
Sl No	Description of work	Mesurement				Qty.	Unit	Rate	Amount
		No.	L	B	D				
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.						Cum		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 01 to 02 is =					**350.64**		180.00	**63115.00**
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						Cum		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 03 is =					**44.10**		5800.00	**255780.00**

Contractor

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer

Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately).						Cum		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 04 to 05 is =					**99.51**		5500.00	**547305.00**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						Tonne		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 06 is =					**6.12**		87000.00	**532440.00**
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate**						Cum		
	Qty as per Premeasurement Recorded vide E-Bill Page No. 07 is =					**6.57**		4500.00	**29565.00**
6	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **150 mm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete.						Sqm		
	Covering Slab								
	Singapura near Vesper Groups W/S	1	15.00	1.20		18.00			
		1	3.00	1.20		3.60			
		1	15.00	1.20		18.00			
		1	15.00	1.20		18.00			
		1	2.20	1.20		2.64			
		1	15.00	1.20		18.00			
		1	15.00	1.20		18.00			
		1	15.00	1.20		18.00			
		1	7.50	1.20		9.00			
		1	15.00	1.20		18.00			

Contractor

Assistant Engineer

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
		1	15.00	1.20		18.00			
		1	9.00	1.20		10.80			
		1	15.00	0.60		9.00			
		1	15.00	0.60		9.00			
		1	15.00	0.60		9.00			
		1	5.30	0.60		3.18			
	Drain Raising								
	E/S	1	30.00	1.20		36.00			
		1	9.40	1.20		11.28			
		-1	7.70	1.20		-9.24			
						238.26			
	Total					**237.60**		1500.00	**356400.00**
7	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **230 mm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete.						Sqm		
	Culvert Slab								
	Singapura near Vesper Groups	1	10.00	1.50		15.00			
	Total					**14.40**		4750.00	**68400.00**
8	Supplying and fixing M15 grade precast cement concrete 600 x 300 x 150 mm Kerb Stone for Roadway, Sidewalls and gutters fixed with CM 1:3 fixed and finsihed in line as per direction of Engineer in charge.						Mtrs		
	Kerb Stones								
	Singapura near Vesper Groups W/S	1	15.00			15.00			
		1	3.00			3.00			
		1	15.00			15.00			
		1	15.00			15.00			
		1	2.20			2.20			
		1	15.00			15.00			
		1	15.00			15.00			
		1	15.00			15.00			
		1	7.50			7.50			
	Drain Raising								
	E/S	1	15.00			15.00			
		1	15.00			15.00			
		1	9.40			9.40			
		1	15.00			15.00			
		1	15.00			15.00			
		1	15.00			15.00			
		1	11.20			11.20			

Contractor

Assistant Engineer

Assistant Executive Engineer

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit	Rate	Amount
						198.30			
	Total					198.00		300.00	59400.00
9	Painting Two Coats on New Concrete Surfaces Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concretesurfaces.						Sqm		
	Kerb Stone Painting								
	Singapura near Vesper Groups W/S	1	15.00		0.30	4.50			
		1	3.00		0.30	0.90			
		1	15.00		0.30	4.50			
		1	15.00		0.30	4.50			
		1	2.20		0.30	0.66			
		1	15.00		0.30	4.50			
		1	15.00		0.30	4.50			
		1	15.00		0.30	4.50			
		1	7.50		0.30	2.25			
	Drain Raising								
	E/S	1	15.00		0.30	4.50			
		1	15.00		0.30	4.50			
		1	9.40		0.30	2.82			
		1	15.00		0.30	4.50			
		1	15.00		0.30	4.50			
		1	15.00		0.30	4.50			
		1	11.20		0.30	3.36			
						59.49			
	Total					59.40		86.00	5108.00
10	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)						Cum		
	Qty Vide 90% of Item No- (1)					319.08			
	Total					319.08		60.00	19145.00
11	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km						T.Km		
	Qty frm Item No-10		319.08	1.28		408.42			
	Total					408.42		50.00	20421.00
								Grand Total	1957079.00
								GST Charges (18% of Executed cost)	352274.00
								Total Amount	2309353.00

Contractor

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura